

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein                      Art Unit : 2612  
Serial No. : 09/484,667                                  Examiner : Rosendale, Matthew L.  
Filed : Jan. 18, 2000  
Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXHIBIT C

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to:  
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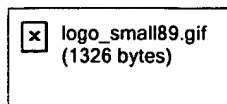
June 14, 2004  
Date



(Signature of person mailing papers)

Edouard Garcia

(Typed or printed name of person mailing papers)



## Monthly Reports - January 1999

### Department Highlights

**Page  
Segmentation**

**Adaptive  
Halftoning and  
Trapping**

**Products**

**Staffing**

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**PROJECT:**

**OBJECTIVE:**

**MANAGER:**

**DATES:**

**STAFF:**

**DISCUSSION**

**CAST:** Visited GHC and PCC in Greeley to discuss the opportunities in making CAST (Camera Scanning Technology) into a product. GHC expressed its interest in CAST as an image capture device tethered to a portable PC and as a video camera with panning and stitching capabilities. We also identified the issues for future work and agreed on the next steps. The key current tasks will be: (a) to test OCR, and (b) to test the whole page reproduction accuracy. On the technical side, we wrote new software for rotation-translation motion estimation, and linear and non-linear illumination correction and vignetting correction, and integrated it into the current CAST program.

**GOALS FOR  
NEXT MONTH**

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**PROJECT:****OBJECTIVE:****MANAGER:****DATES:****STAFF:****DISCUSSION**

**Display Image Quality:** We developed a display simulator in Matlab that takes different gamma design parameters and generates simulated images on a CRT, together with a S-CIELAB perceptual error map to show where the most visible perceptual errors are likely to occur. The code calculates perceptual error maps for any input test image and specified design parameters. The simulator code was delivered to Stefan Kemper of DPD and our results were presented at an architecture decision meeting and influenced the final design decision. We continued to work on a display flicker model with Rene Huelbing (IPD) and made new predictions for a display with mandatory dark time intervals. We designed a vision experiment to investigate the visibility of field sequential color displays based on a panel of flickering diodes. We designed the optics for the LED panel that is being built under a research contract. We prepared a talk on web-based visual

psychophysics for the Photonics West conference.

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**PUBLICATIONS & REPORTS:**

**PATENTS:**

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